BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and construction of RCC drains at Basavalingappanagara and surrounding areas in Ward No. 03

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Basavalingappanagar								
	1st cross Rd		1	52.00	1.20	0.90	56.16		
	2nd cross Rd		2	32.00	1.20	0.90	69.12		
	3rd cross Rd		2	35.00	1.20	0.90	75.60		
	4th cross Rd		2	40.00	1.20	0.90	86.40		
	5th cross Rd		2	50.00	1.20	0.90	108.00		
	6th cross Rd		2	84.00	1.20	0.90	181.44		
	7th cross Rd		1	146.00	1.20	0.90	157.68		
			1	52.00	1.20	0.90	56.16		
	Vishwanagar								
	1st main Rd		2	205.00	1.20	0.90	442.80		
	1st cross Rd		2	54.00	1.20	0.90	116.64		
	Near Main Rd		1	68.00	1.20	0.90	73.44		
	Cross Rd-1		1	442.00	1.20	0.90	477.36		
	Cross Rd-2		1	86.00	1.20	0.90	92.88		
	Cross Rd-3		1	45.00	1.40	0.90	56.70		
	For RCC Culvert		7	9.00	1.60	1.05	105.84		
							2156.22	215.28	**464191.04**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Basavalingappanagar								
	1st cross Rd		1	52.00	1.20	0.15	9.36		
	2nd cross Rd		2	32.00	1.20	0.15	11.52		
	3rd cross Rd		2	35.00	1.20	0.15	12.60		
	4th cross Rd		2	40.00	1.20	0.15	14.40		
	5th cross Rd		2	50.00	1.20	0.15	18.00		
	6th cross Rd		2	84.00	1.20	0.15	30.24		
	7th cross Rd		1	146.00	1.20	0.15	26.28		
			1	52.00	1.20	0.15	9.36		
	Vishwanagar								
	1st main Rd		2	205.00	1.20	0.15	73.80		
	1st cross Rd		2	54.00	1.20	0.15	19.44		
	Near Main Rd		1	68.00	1.20	0.15	12.24		
	Cross Rd-1		1	442.00	1.20	0.15	79.56		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							672.60		
	For RCC Culvert								
	Raft		7	9.00	1.20	0.20	15.12		
	side walls		14	9.00	0.20	0.60	15.12		
							30.24		
					Net Qty.		**702.84**	7070.20	**4969219.37**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 70 kg / cum	Tonne		672.60	0.070	--	47.08		
	Considering steel For Culvert @ 100 kg / cum			30.24	0.100	--	3.02		
							50.11	73992.24	**3707455.18**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Basavalingappanagar								
	1st cross Rd		1	52.00	0.90	--	46.80		
	2nd cross Rd		2	32.00	0.90	--	57.60		
	3rd cross Rd		2	35.00	0.90	--	63.00		
	4th cross Rd		2	40.00	0.90	--	72.00		
	5th cross Rd		2	50.00	0.90	--	90.00		
	6th cross Rd		2	84.00	0.90	--	151.20		
	7th cross Rd		1	146.00	0.90	--	131.40		
			1	52.00	0.90	--	46.80		
	Vishwanagar								
	1st main Rd		2	205.00	0.90	--	369.00		
	1st cross Rd		2	54.00	0.90	--	97.20		
	Near Main Rd		1	68.00	0.90	--	61.20		
	Cross Rd-1		1	442.00	0.90	--	397.80		
	Cross Rd-2		1	86.00	0.90	--	77.40		
	Cross Rd-3		1	45.00	1.20	--	54.00		
							1715.40		
							1715.40	2337.00	**4008889.80**
6	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
				m	m	m			
	For Culvert Slabs	Sqm	7	9.00	1.20	--	75.60	5418.00	409600.80
7	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	For Drain	Nos							
	Vishwanagar								
	1st main Rd		2	205.00			410.00		
	1st cross Rd		2	54.00			108.00		
							518.00		
							1151.00	432.48	**497784.48**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
8	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Drain	Sqm							
	Vishwanagar								
	1st main Rd		2	205.00	0.40		164.00		
	1st cross Rd		2	54.00	0.40		43.20		
							207.20	84.80	**17570.56**
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
9	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications.(I No-19.14,P No-143)								
	For Concrete Road	Cum							
	Near Main Rd		1	43.00	4.50	0.300	58.05		
	Platform concrete		1	11.00	12.00	0.300	39.60		
	Between Apartment & Drain		1	100.00	1.00	0.300	30.00		
							127.65	63.94	**8161.94**
	Basic Rate Rs.=	41.00							
	Add 6% A.W Rs. =	2.46							
	Sub Total =	43.46							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	**63.94**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
10	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	For Concrete Road cut portion	Cum							
	Near Main Rd		1	43.00	2.00	0.200	17.20		
							17.20	1994.92	**34312.62**
	Basic Rate Rs.=	1882.00							
	Add 6% A.W Rs. =	112.92							
	Total Rate Rs. =	**1994.92**							
11	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)								
	For Concrete Road	Cum							
	Basavalingappanagar								
	Near Main Rd		1	43.00	4.50	0.150	29.03		
	Platform concrete		1	11.00	12.00	0.150	19.80		
	Between Apartment & Drain		1	100.00	1.00	0.150	15.00		
							63.83	5210.96	**332589.52**
	Basic Rate Rs.=	4916.00							
	Add 6% A.W Rs. =	294.96							
	Total Rate Rs. =	**5210.96**							
12	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. (Page No 176 Item No 22.7)								
	For Concrete Road	Sqm							
	Basavalingappanagar								
	Near Main Rd		1	43.00	4.50		193.50		
	Platform concrete		1	11.00	12.00		132.00		
	Between Apartment & Drain		1	100.00	1.00		100.00		
							425.50	72.08	**30670.04**
	Basic Rate Rs.=	68.00							
	Add 6% A.W Rs. =	4.08							
	Total Rate Rs. =	**72.08**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							Sub Total 1 Rs		16814752.51
	Add GST @ 12%								2017770.30
	Add KRIDL @ 4%								672590.10
	DPR & PMC Charges including								394000.00
							Sub Total 2 Rs		19899112.92
	Miscellaneous & Rounding off								887.08
								Total Rs	19900000.00

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary
2. The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019
3. The Provisions made in the estimate are quite necessary and adequate
4. The area comes with in the BBMP limits

Assistant Engineer
Ward 03
BBMP

Assistant Executive Engineer
Yelahanka Newtown Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Administrative Sanction for Rs. 199.00 Lakhs
one Crore Ninety Nine
Lakhs only
is accorded under head P-3749
GM- Nava nagarothana grants
to Villages (Annexure -07)
Registered as CE No ... Subject
to conditions contained in
No EE/YNK/71/2019-20 7/11/2019

Executive Engineer

Technical Sanction
Accorded For Rs 199 Lakhs only
Head of A/C P3749
CER NO :212 Dt 6.11.2019

[TA] CE (YNK)